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RECENTLY PUBLISHED RESEARCH OF THE INSTITUTE OF BIOLOGICAL PROPHYLAXIS OF INFECTIONS, USSR

"Specific Polysaccharide Complexes of Microorganisms," A. M. Kuzin, I. S. Buyanovskaya, A. M. Rykalova, N. I. Kuzina, Inst Biol Prophylaxis of Infections, Moscow

"Biokhimiya" Vol 12, 1947, pp 340-9

Polysaccharide complexes from tissues of guinea pigs, white mice, and human subjects were isolated by modified known methods. Polysaccharide from guinea pigs (yield 1.0%) contained 4.5-6.8% N. After hydrolysis with 0.1N HOAc, the mixture analyzed: polysaccharide 39%, lipides 9%, peptides 16%, water-soluble fraction 36%. Polysaccharide from human tissues (yield 0.2-0.7%) contained 2.5% N. Reducing substances after hydrolysis with 1 N H_2SO_4 for 4 hours varied from 11 to 26%. Polysaccharide from white mice (yield 0.9%) had 5.8% N and yielded 17.5% reducing substances (as glucose) on hydrolysis with 1 N H_2SO_4 for 4 hours. Chemical composition of polysaccharide was similar to that of the guinea pig. Glycogen was not a component of any polysaccharide. All three complex polysaccharides possessed specific antigenic properties.

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